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Residential Product and Technology News at ISE 2012

This special edition HiddenWires print supplement looks at a selection of technology for the residential custom install market at ISE 2012. For further coverage, visit **ise.hiddenwires.co.uk**.

In these cost-conscious times, installers are looking for good deals, and manufacturers are responding with new products that offer more functionality and better value. There are now even more products that support Apple iDevices and Android phones and tablets, with apps that turn these devices into displays and controllers, while proprietary controllers offer ever more convenient and easy-to-use operation.

The number of companies supporting the KNX standard is increasing, and there is more emphasis on energy-saving from lighting and whole-home automation companies.

With consumers more likely to stay at home, products for turning large and small spaces into 'home entertainment heaven' abound, with clever solutions for hiding the technology away when not in use. There are lots of new speakers, with innovative artistic, discreet and invisible designs, and also discreet mounting solutions for TVs, projectors and screens.

For source material, servers now provide enhanced automated ripping features, and wired and wireless multiroom systems offer more integration of music services.

On the connectivity side, HDMI still poses challenges for the integrator, and there are a lot of products and helpful advice available at the show that deal with HDMI, IR, RS232, IP and HDBaseT among others, as well as cable and connector products with an emphasis on quality, reliability and easy termination.

Whatever your interest in smart home technology, there will be plenty to see at ISE 2012. Enjoy the show, and do drop by the HiddenWires stand 7P198!

Editor: Yasmin Hashmi
Publisher: Stella Plumbridge
Telephone: +44 (0)20 8761 1042
Email: info@hiddenwires.co.uk
Web: www.hiddenwires.eu
Twitter: HiddenWires
LinkedIn Group: HiddenWires
Facebook: HiddenWires
Google+: HiddenWires

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Home Control

Members of the **KNX Association (stand 7V197)** are showing multiroom and whole-home solutions for green home and building automation using the KNX industry standard control protocol. DIVUS, for example, is showing the KNXSUPERIO touchpanel. As a central control station, it offers a quick overview of the whole control system of your home, with great flexibility, high operating convenience and easy handling of the KNX bus system. It can control HVAC, shading and lighting, while optimising energy consumption. On offer from Empure is the iKNiX app for iPhone and iPad as well as the new RTI KNX driver for all RTI remote controls. The free app and driver can be used to bi-directionally control any KNX components such as lights, HVAC, blinds, alarm, auxiliary and audio functions. Empure is also showing KNiX Port that can control up to 1000 data points or group addresses, and can be controlled locally or via dynDNS from anywhere in the world, with ten users able to access one gateway simultaneously. Meanwhile, Contatto software from tci supports integration of IP-based video intercom stations directly into the touchpanels of a building control system via VoIP/SIP and video streaming. Besides standard webcam, Contatto can be used with IP-based door intercom systems such as those by Mobotix, Siedle, TCS and Baudisch.

HAI (Aldous Systems Europe stand 5U88) is announcing the development of a KNX gateway that allows Ethernet-enabled Omni and Lumina controllers to communicate with and control KNX devices installed on the network. Lighting, temperature, energy management, and motors for window coverings, shades, shutters, etc, are among the many KNX devices that can be controlled from an HAI interface or automatically via controller programming.

Separately, HAI is showing its 29-part Omni-Bus lighting control network. Designed for the 220-240V/50Hz market, the DIN rail-style Omni-Bus provides hardwired and wireless solutions. The products are broken down into four segments: Core Products that

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are required, Load Control Modules, Switch Interfaces, and Accessories, and products are available for control of lighting loads, fans, motors, pumps, and more. HAI is discussing these and other products during nine different training sessions being held in Room D401 on Thursday, 2 February.

In its aim to lead the transition from analogue technology to digital, **Crestron (stands 1F2, 1F6 and 1F7)** is showing a range of solutions for whole-home control. The new DigitalMedia 6X6 Distribution Center features next-generation DigitalMedia 8G+ technologies and is able to distribute pure uncompressed digital and analogue AV content, plus Ethernet, control signals and more, over long distances to up to six rooms, all over a single wire.

The new generation MC3 is Crestron's first 3-Series control system powered by Core 3 OS. Developed and engineered like an IT platform rather than an AV system, the 3-Series is designed to provide a foundation for powerful integrated building technology and advanced home control. The MC3 combines the agility and speed of a computer operating system with the reliability of a network appliance, to enable real-time multitasking that runs up to ten independent programmes simultaneously.

Xantech (AVC stand 1N73) is showing Web Designer 3.0 'drag and drop' software for designing custom web control pages that can be stored and served up from within Xantech's WIC1200 Web Intelligent Controller and then exported remotely to any network/web-based control device, such as the Xantech CWTC10 10.4-inch Wireless Touch Controller. Additionally, because the WIC1200 is a network/web-based control device, the custom design web control pages can be used easily on any web-enabled device/tablet, including Apple iPad.

Xantech is also offering the BDXTT Stereo Bluetooth Receiver as a wireless connection between any A2DP Stereo Bluetooth-enabled audio source, such as the iPad, iPhone, iPod touch 2G, many smart phones and personal computers, and any single or multi-zone audio system. In addition, Xantech is showing three new IR kits for projector, conference room and large venue applications respectively, two of which come with an amplified connecting block that allows the connection of Xantech IR receivers and ten emitter ports.

RTI (stand 4S60) is showing the RTI SURFiR companion remote for iDevices that provides an affordable alternative to dedicated touchpanel controllers, allowing existing Apple touchscreen devices to be incorporated as the GUI while adding tactile control with hard buttons. It can be used with any of RTI's XP control processors. Meanwhile, the RTiPanel app for Apple iDevices provides users with complete control over any RTI XP remote processor and all connected electronic systems, from anywhere in the world. It offers full two-way feedback, dynamic scrolling lists, and a completely customisable user interface. Android support is planned for both controllers during this year.

For complete home control, the RTI KX7 in-wall touchpanel includes integrated 10/100 BaseT, 802.11 wireless Ethernet, and a ZigBee module for wireless communication with RTI's ZigBee-enabled control processors. The next generation of RTI T2-C handheld controller, offers a dual-RF platform for both 433MHz RF one-way control and 2.4GHz ZigBee for bidirectional communication with RTI processors and supported third-party electronic devices. The RTI ESC-2 allows installers to expand the capabilities of any RTI XP series processor by adding two additional bidirectional serial ports over Ethernet.

In addition to representing HAI, **Aldous Systems Europe (stand 5U88)** is showing BitWise Controls products featuring new templates with stylish icons. New products include the BC1 automation controller. This features an internal scripting engine, atomic clock and SMS text controller, and comprises a 1U rackmount with 4 x RS232, 8 x IR, and 4 x IO. It also accepts IR commands from legacy learning IR remotes. The other addition is the BC-IRI. This allows the BC4X1-PRO automation controller to trigger macros from IR commands, allowing the BC4X1-PRO also to be used with legacy IR learning remote controls. Indeed when used in conjunction with BitWise Project Editor software, the BC4X1-PRO allows an iDevice or Android device to be turned into a fully-customisable remote control.

As far as HAI is concerned, Aldous is keen to highlight the new Bluetooth Remote Input Module for the HiFi II multiroom audio system for audio streaming from any Bluetooth enabled device. HAI has also launched the HTX 2 home theatre AV controller and will soon be updating its iPhone app so it can also control AV equipment as well as HVAC, security, audio, lighting, etc. Finally, the HAI wireless range of products now has both ZigBee and Z-Wave ability for use with thermostats, relays and door locks.

With a focus on the importance of infrastructure, **AMX (stand 2C50)** is demonstrating total control using its core technology. This includes the Enova range for automating any environment; ICSLan device control boxes with PoE for AV, HVAC, lighting and blinds control using IR, RS232, IO or relays; Resource Management Suite software; and the new Modero X Series of frameless, panoramic and widescreen touchpanels.

URC (stand 1P35) is rolling out the Total Control line for whole-home audio, automation, climate control, IP-based surveillance and more. With Total Control, it does not matter which protocols that controllers, devices and subsystems natively speak, be it IP, IR, RS232, Relay or Sensor, any device can communicate with any other.

Lighting

Philips Dynalite (stand 5S99) is showing its latest gateway device which allows seamless integration with air-conditioning systems, weather stations, elevators and security systems using the KNX standard. The company is demonstrating new developments including user interfaces such as DynamicTouch for the iPhone and iPad, which allows users to control integrated systems, comprising lighting, AV, curtains,

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Philips Dynalite is synonymous with the creation of sophisticated, reliable, energy-efficient lighting control solutions for residential, corporate, retail, hospitality, industrial and public spaces.

An industry-leading innovator for more than 20 years, Philips Dynalite has become the solution provider of choice for a wide range of energy management, 'smart home' and architectural lighting control applications. The company simplifies the task of transforming environments with light and addressing the world's ongoing quest for building and lighting energy efficiency, facility optimisation and user comfort.

Philips Dynalite offers an extensive range of hardware and software products that enable advanced levels of lighting control, energy management and seamless integration with third-party systems, including audio-visual, air conditioning, and security.

By implementing a range of energy management strategies, such as presence sensing, zoning, daylight harvesting, dimming and time-based control, users can optimise energy use, while maintaining comfort levels and maximising cost savings. These innovative technologies align with the global shift to energy efficient LED solutions, and have been engineered to reduce power consumption, combat escalating energy costs and address sustainable design requirements.

Philips Dynalite lighting and energy–management systems accommodate 'building churn' – where tenancies change, staff numbers fluctuate and office activities vary – by adopting a scalable approach. This allows building owners to avoid wasteful, and intrusive, refurbishments and extend the lifetime of their system.

For public spaces and outdoor areas, our solutions allow designers to create and implement attractive and engaging environments with optimised levels of comfort and safety, enhancing the public's sense of participation and wellbeing.

No environment is more intimate than the space we call home. Clever lighting control solutions now allow developers, designers and homeowners to express individual personality and style. Domestic atmospheres can be tailored to function, mood or occasion – all in an easy-to-use, cost effective and sustainable way.

Philips Dynalite is dedicated to creating value and meaningful innovations that improve and enhance not only the environment and a building's efficacy through life, but also people's health and wellbeing.

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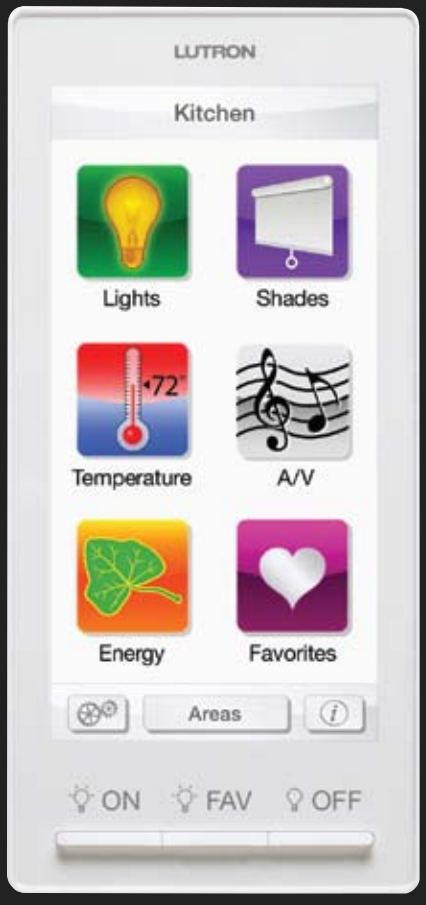

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blinds, temperature etc, from anywhere in a home or office building. With an appropriate interface, users can also control the systems while they are travelling.

Also on show is the DALI Multi-master. This latest evolution of the DALI protocol permits devices other than ballasts controlling lamps to be added to the DALI system for increased functionality. DALI-enabled devices such as sensors and user interface panels can communicate directly with the DALI ballasts, thus eliminating the need for parallel data networks. To help demystify lighting control systems for building managers and project developers, Philips Dynalite staff are on hand to discuss the benefits of the Philips Dynalite Training Academy, and are also providing information on the Dimension Dealership training programme.

Lutron (stand 5R86) is launching new home control solutions including a range of energy-efficient light control products. The company is demonstrating the functionality of its existing product lines as well as its latest whole-home systems that bring together all of the elements required for the ultimate in whole-home lighting control, offering full integration with new technologies to allow for significant energy savings to be made. Lutron specialises in controlling both daylight and electric light, holds over 2000 patents and manufactures over 15,000 products, including the invention of the first solid-state dimmer and fluorescent dimming technology.

For the retrofit lighting market, **Crestron (stands 1F2, 1F6, 1F7 and 1F17)** is showing the CLWI range. Designed for the European residential market, the range features in-wall dimmers and keypads, and programming-free set-up. When attached to a Crestron network it also functions as a keypad, sending commands to trigger whole-room lighting scenes or distributed audio functions. Supporting up to six buttons, the in-wall dimmer or switch serves as user control interface in any Crestron system. Also available are aesthetically-matched standalone keypads which use Cresnet or infiNET EX wireless communications.

Version 5.4 of the **ELAN Home Systems (AVC stand 1N73)** g! entertainment and control system software supports the new international version of Lutron's HomeWorks QS total home control system. Once an installer programs a Lutron RadioRA 2 or HomeWorks QS System, the ELAN g! imports this data. The integrator can then add on/off light automation based on preset schedules or activity-based events such as arming or disarming the security system, motion detection, driveway sensors and more. The installer can create additional scenes that can be controlled from any g! interface and are distinct from Lutron in-wall keypads scenes. Version 5.4 also includes enhanced support for Lutron's Sivoia QS shade control, and integrates Lutron's new temperature control products. In addition, ELAN g! is now compatible with KNX-certified lighting, climate, shade, and input/output devices.

Home Cinema and TV

Panasonic (stand 1H56) is highlighting large-format interactive displays, projectors and its eco credentials through its Offset for Life initiative. The company is showing the latest 3D plasma technology for applications such as home cinema, design and architecture and gaming.

Runco (room G105) is announcing the availability of Ultra versions of several of its projectors, all of which are designed for higher sharpness and lower colour distortion at longer distances from the screen. Runco is also showcasing the new LightStyle LS-100d with the NEAR (Next-generation Extreme Aligned Reflection) ultra-short throw lens system. At a depth of only 18 inches, LightStyle LS-100d delivers a 92-inch diagonal image designed to fit any setting.

Screen Research (stand 1M5) is introducing a new E-Mask model of fixed screen with lateral or top/bottom masking. It features a new anchoring system of the projection surface for fast installation and constant tensioning through time, and two radio-integrated motors with synchronised encoders that interface with the company's new MCS-N-RS232 control panels.

Elite Screens (stand 1P5) is showing the Evanesce, a UL2043 plenum compliant in-ceiling projection screen that conveniently disappears from view when not in use. Different variants come with either a fibreglass-backed or tensioned 1.1 gain matte white material. The company is also showing the PowerMax, a new electric roll-up projection screen.

For applications where a larger projected image is desired than can be provided by a flatpanel TV, **Vutec (stand 3D112)** is launching Reverse Roll. This projection screen is deployed in front of the TV screen, and is available in self-supported surface and tab-tensioned surface versions. Vutec is also offering a slimline version of its ArtScreen and ArtScreen Studio series. ArtScreen is a system for hiding screens behind an art canvas that can be licensed artwork or customised artwork. With recessed or surface mounting options available, Vutec can customise each ArtScreen to fit any TV.

The complete range of **Aquavision (stand 5V115)** televisions is on show, all with LED backlighting, and in screen sizes from 19 to 40 inches. Finishes include black, white and MirrorVision - where the glass takes the form of a mirror that is suitable for shaving, make-up etc, when the TV is switched off. All new Aquavision televisions now come with a two year warranty and an optional extended five year warranty, which will include in-home repairs.

Media Servers and Players

DF Solutions (stand 5V110) is showing a range of media servers, including the flagship 3D Base. This can distribute 3D Blu-ray movies, Spotify, and all types of streaming content to any room, and is combined with a control-system as well as iPad/Android tablet control integration.

VidaBox (stand 9B111) is introducing the vServer series of multi-zone media servers. These include a built-in Blu-ray drive, and seamlessly archive any unencrypted disc using the VidaBox Drop-n-Rip and DualRip capabilities. The server then streams stored Blu-ray, DVD, music, photos, videos, and other digital content to ten or more VidaBox extenders losslessly over a single Ethernet cable. Other media players such as HDI Dune, PopCorn Hour, TViX, and XBMC may also be added thanks to the system's third-party metadata compatibility.

Parasound (BMB stands 1P22 and 1P35) is offering the ultra-compact Zcd CD player. Designed to offer more features than most full-sized players, the Zcd not only plays CDs, but also MP3s from a CD-R or a USB flash drive. Furthermore, its analogue volume control allows it to be combined with the Parasound Zamp v.3 power amplifier for a high-end compact stereo system without the need for a separate preamp.

Kaleidescape (stand 1P90) is announcing the M700 Disc Vault for simplifying and accelerating the process of adding movies and music to a Kaleidescape system. Up to 320 discs can be loaded into the M700 Disc Vault's precision carousel, where their contents are automatically copied onto the Kaleidescape system. Once copied, a Blu-ray disc must remain in the disc vault to enable playback of the digital copy from the server. DVDs and CDs may either be ejected or left in the M700 Disc Vault for safe storage and easy accessibility.

Imerge (Prism Sound stand 1M43) is introducing a fourth-generation server, the MS1-3D. This has the ability to archive and play 3D DVD and Blu-ray movies in full 1080p high-definition quality without the need for a mechanical disc auto-changer. With the MS1-3D, users can access all of the existing features of the MS1-HD, including a multiple language user interface for international customers and an iPhone and tablet controller app that allows full control of the MS1-HD or MS1-3D using a wireless network. Furthermore, the MS1-3D integrates four zones of analogue audio, thus combining both a movie server and a multiroom audio server in just one box.

Multiroom

Sonos (stand 11H58) is showcasing its current product portfolio, including the SONOS PLAY:3, the newest all-in-one player designed to deliver big Hi-Fi sound in a compact size. It works both horizontally and vertically, and mounts on the wall for added flexibility. Sonos wireless multiroom systems support 100,000 radio stations and a number of Internet music streaming services including Last.fm, Napster, Deezer and Spotify to provide access to millions of songs and playlists. The Sonos solution also offers a computer-free installation, with the availability of free iPhone, iPad and iPod touch applications, as well as the more recent apps for Android smartphones and tablets, all of which provide instant control of the Sonos system.

Since ISE 2011, the Sonos product family has grown with the addition of the PLAY:3. The rest of the Sonos collection has undergone changes in name. The ZonePlayer S5 is now PLAY:5; the ZoneBridge, for instant wireless setup, is now BRIDGE; and the ZonePlayer 90 and ZonePlayer 120 are now CONNECT and CONNECT:AMP respectively.

NuVo (stand 1P122) is unveiling the addition of music recommendation service Last.fm to the list of Internet-based streaming audio providers accessible through its Music Port and Music Port Elite content aggregator and streaming devices. Last.fm assesses a listener's musical taste through the individual's song selections, both online and digitally-stored on the user's computer or other devices, and uses that profile to recommend new music from its own vast catalogue. Accessing this service through the four simultaneous source streams of the Music Port components offers NuVo customers not only additional variety, but also an interactive way to further engage with music.

ATON (AVC stand 1N73) is showing a pre-programmed whole-house 'Music & More' system. The new kit features the AH66T Multi-Source Multi-Zone Controller plus six OLED2 touchpads that offer graphic control and feedback. With built-in programming to run market-leading sources such as the iPort and Lutron RadioRA2, the affordable multiroom audio solution allows dealers to rapidly deploy a first-time or add-on audio system with iPod and lighting control capability, ready to go. The AH66T has a built-in, RDS-enabled AM/FM tuner plus six additional sources, rated at 60W per zone with a line level pre-output for subzones. The controller includes a dedicated IR input for every zone with a full, discrete IR code set for integration. It comes with a full two-way RS232 code set for control via third party devices where a separate multiroom solution is required. The controller is stackable to two chassis for a 12-zone system with tuner pre-outputs sharing the AM/FM selections between chassis. The included full-colour OLED2 in-wall capacitive-touch touchpads display the system's metadata text, graphics, channel icons and more, and are available with interchangeable faceplates in white, ivory and almond.

ELAN Home Systems (AVC stand 1N73) has a powerful new 16-channel multi-zone amplifier/controller that combines the functionality of the ELAN D16 amplifier and S128P multi-zone controller into one new component that simplifies and lowers the total cost of a system installation. The ELAN S1616A Amplifier/Controller is designed to integrate exclusively with the ELAN g! entertainment and control system, which now features a full 5,800 simplified Chinese character set across all of its TS touchscreens, HR2 remote control, computer interface, on-screen display, iPhone, and iPad user interfaces. The company has also added a new 10-inch hardwired tabletop and under-cabinet-mounted colour LCD touchscreen to the family of ELAN g! system interfaces.

The g!Mobile 5.3 upgrade for Elan g! also means that users of the Niles IntelliControl ICS System can take advantage of iPad, iPhone, and iPod touch control capability, as the software offers complete control of both the ELAN g! system and the Niles ICS System, and is available from the iTunes store.

Xantech (AVC stand 1N73) is displaying the DDS Digital Delivery System. This employs DIGI-5 amplified-keypad technology and CAT5 wiring to provide cleaner audio at louder listening levels than previous similar analogue systems. DDS is aimed at residential homes, condo/apartment complexes, hotels, restaurants, resorts, coach buses, RVs etc, and operation is designed to be intuitive, with no extra programming necessary. It features RS232 control, and audio distribution to anywhere from 4 - 28 zones.

Complementary to the **RTI (stand 4S60)** AD-8 distributed audio system are the new four-channel CP-450 and 16-channel CP-1650 amplifiers that extend speaker outputs to accommodate larger installations. Providing 50W per channel, the units feature a matching chassis to the AD-4 and AD-8 and use the same Cool Power technology. Also on show is the rackmount or desktop RTiDock, that features the ability to sync with iTunes over the network through RTiSync technology.

Opus Technologies (stand 5T98) is showing a number of new developments of the Opus 6 Series multiroom entertainment and control system featuring HD video and future upgradeability. In addition to existing RDS and DAB tuner modules, there is a new Network Radio Module and iPad/iPod docking module.

Loudspeakers

Stealth Acoustics (stand 5S110) is presenting the Image II on-wall speaker system for music playback, flat panel reinforcement, surround sound or commercial applications. Designed to represent the designer or homeowner's individual look, Image II easily accepts customisation through high-resolution graphics manipulation and large format printing. The user can choose from Stealth's growing image library, or can supply their own high-resolution image or paint. Finish options can even include custom wallpaper, or wood veneer that is real or graphics based. The speaker features

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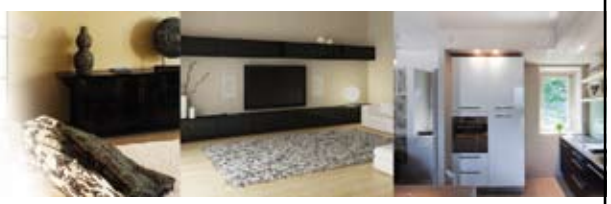

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solid audio performance, with smooth extended high-frequency response and Stealth's LeverAcoustic bass extension for high-performance imaging and 170-degree dispersion.

Also on the Stealth stand is the LR4 audiophile-grade invisible speaker for totally invisible home cinema sound. This two-panel speaker can be installed into walls or ceilings of 83mm depth or greater, and finished with virtually any paint, wallpaper, veneer or other typical wall covering. Its Quad Balanced Midrange Drive technology creates almost hemispherical radiation, but with a uniquely balanced angular distribution in the vertical, horizontal and depth sound stages, allowing for a very spacious listening experience.

Niles (AVC stand 1N73) is introducing the CM4PR, its first-ever compact ceiling mount loudspeaker with a mere 4-inch footprint. Designed to be small, aesthetically pleasing and with audiophile-grade performance, the CM4PR features optimised Linkwitz Riley crossover components and Niles Rear Wave Control that inhibits sound transfer to adjacent rooms. It has magnetically-attached paintable and rust-resistant grilles in round or square options. Niles is also introducing two ultra-compact subwoofers, the SW6.5 and the SW8. These pair a long-throw front-firing woofer with dual long-throw side-mounted passive radiators to deliver the power of subwoofers four times their size.

For outdoors, Niles offers the new GS Garden Speakers that are rated for -50 to 185 degrees Fahrenheit. The range comprises the GS4 4-inch satellite loudspeaker that can be wall or stake-mounted, and the GSS10 10-inch in-ground subwoofer that requires a burial depth of just 16 to 18 inches.

The result of over 12 years of research and development, the **Artcoustic (stand 7T185)** SL range has been designed for anywhere requiring high-performance sound and good-looking speakers. Applications include small flatscreen TV-based systems to state-of-the-art private cinemas, as well as bars, restaurants, and places of worship. The SL range is designed to provide the dynamics and power of a horn-loaded design, but with the accuracy and quality of a Hi-Fi design. It employs an array of world-class drive units to provide high efficiency, output and accuracy, while maintaining its signature design ethos by allowing the customer to take advantage of Artcoustic's huge portfolio of artworks and designs. The SL range delivers efficiency as high as 104dB, with output up to 127dB, and all in a cabinet that is just 67mm deep.

Sunfire (AVC stand 1N73) is introducing the Sunfire Universal Wireless Subwoofer Kit. Comprising a receiver and transmitter, the kit is compatible with any third-party manufacturer's powered subwoofer and eliminates the need for new wires. The SDSWITX Wireless Transmitter and SDSWIRX Wireless Receiver allow customers to place a subwoofer near any electrical outlet, up to 25 feet from the audio source. For even more bass punch and fidelity, one transmitter can support two receivers for two separate subwoofers.

Sunfire is also displaying its Dynamic Series of subwoofers designed for applications where small size and high output are required. The SDS-12 features a Sunfire-designed woofer and acoustically-matched passive radiator. The DS family is also the first in the Sunfire line built around energy-efficient Sunfire Class-D amplification, dynamically adjusting the output of the subwoofer's power supply to suit the requirements of the incoming audio signal. Sunfire's new digital amplifier delivers 600W of cool-running peak output. There is also a low-power standby mode, a signal-sensing or always-on power option, and continuously variable phase, crossover and volume controls.

Speakercraft (stand 1N80) is showing the new Speakercraft Roots range of cabinet satellite speakers and subwoofers in black or white with a high gloss finish. SpeakerCraft has also rolled out more variations of the Profile range of flangeless speakers that use magnetic grilles. Available in the traditional Speakercraft CRS speaker form or the AIM form (with pivoting tweeter), Profile additionally supports square grilles to fit its round speakers, if required. For an invisible finish, the Speakercraft Seamless range of in-wall and in-ceiling speakers can be plastered over. They include drivers for good high- and low-frequency response, and a subwoofer is also available.

Procella Audio (stand 7M186) is showing the new P860 flagship loudspeaker designed for spaces as large as mid-size commercial cinemas. The P860 is a biamplified three-way full-range screen channel speaker capable of delivering THX reference-level playback in rooms up to 24m (80 feet) deep. Also on show are the P610, a full-range three-way biamplified high-output speaker designed for screening rooms and large home cinemas; and an upgraded version of the P10 active subwoofer and the P10Si balancing subwoofer.

Genelec (stand 1K76) is offering attendees the chance to hone their audio skills and knowledge at the stand throughout the show. Integrators can get hands-on with products and see demos of acoustic simulation software for the fixed installation market. Course attendance is free; delegates just need to turn up on the day to join a session.

AWE (Kinetik Labs stand 5V110) is launching a range of new and improved Kinetik Labs in-ceiling speakers and speaker cables, designed to be installer-friendly.

Distribution and switching

CYP (stand 5T113) is showing a new HDMI matrix line-up designed to offer the most comprehensive range of robust and versatile solutions available. The range has been positioned specifically with installer flexibility in mind and includes the new 8x8 HDMI Matrix, the 8x8 HDMI and CAT (switchable output) Matrix, the 8x8 IR Matrix, and the feature-rich 8x8 HDBaseT Matrix. All of these products were engineered during 2011 and feature v1.4 HDMI specifications and common IR and RS232 protocols. CYP maintains that the 8x8 HDBaseT Matrix in

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particular, pushes the control capability of AV installations to a new level that was previously not thought possible.

Atlona (stand 4U63) is showing the AT-PRO2HD88M 8x8 high-speed HDMI matrix switcher that uses HDBaseT technology to allow signal runs up to 100m, and is designed for larger residential multiroom AV projects where multiple signals must be sent through a single CAT5 cable to feed up to 8 receiver modules. The Atlona AT-PRO2HD1616M 16x16 high-speed HDMI matrix switcher also uses HDBaseT technology for multiple signals through a single CAT5, this time to feed up to 16 separate receiver modules. The Atlona AT-PRO3HD44M 4x4 HDMI matrix switcher supports signal runs over 60m at 1080p. It takes advantage of the PoE abilities of HDBaseT technology, and is suitable for integrating multiroom AV systems in single-family homes. Also on show are the Atlona Digital Connectivity Diagnostic Kit that allows most connectivity issues to be diagnosed and resolved quickly; and the Atlona LinkCast Wireless HD Audio/Video System for plug-and-play wireless connectivity of virtually any HDMI source to the LinkCast receiver, including laptops, game consoles, Blu-ray players, and more.

Smart-e (stand 5S92) is showcasing the recently-launched SDS-900 series of point-to-point extenders supporting HDMI V1.4, distribution over a single CAT5e-8 cable and a choice of three specifications.

New products for **Key Digital (stand 5V130)** include the KD-CATHD500 Smart Balun kit which uses HDBaseT to transmit 1080p/60 signals over distances up to 300ft. For larger distributed video applications, the KD-HDMSW4x4 HDMI matrix switcher is capable of switching up to four HDMI video sources to four independent zones via dual CAT5 to four included baluns. The unit supports all resolutions up to 1080p, all lossless audio formats, 4K and 3D, and includes an internal EDID library for source and display matching. Also on show is the KD-HDDA1x1 HDMI booster and extender which is capable of repeating 1080p resolution up to 20m, and supports 4K, 3D, HDMI Ethernet channel and ARC.

Power Management

Panamax/Furman (Speakercraft stand 1N80) is showcasing a full line of commercial and residential products, including the CN-3600S E SmartSequencer power management solution for the EMEA market that is compatible with the company's BlueBOLT remote power and energy management platform. The 220V-240V, 16A capacity CN-3600S E combines AC power distribution, protection, filtration, and sequential system power on/off in a 1-RU rackmount unit. Featuring Furman's SmartSequencing technology, it allows large and complex AV systems to be safely powered on and off with a simple press of a button or turn of a key.

Racks and Mounts

Chief (stand 2A52) is showing the Thinstall family of ultra-thin swing-arm wall mounts and accessories. Engineered for use with LED, LCD and plasma TVs, the Thinstall mounts collapse to 1.3-inch (33mm) or 1.5-inch (38mm) depth while offering smooth, fingertip tilt. Thinstall is designed to be sleek and modern, and uses high-strength, forged steel and aluminium arms for extra strength. The company's 'Centerless' lateral shift feature offers up to 16 inches (406mm) of post-install lateral shift, while height and levelling adjustments of up to one inch can be made after the mount is in place. All necessary hardware, including screws, spacers, and hex keys, are supplied for mounting on wood, concrete or brick walls. Multiple cable paths have also been provided and are enclosed with covers allowing tool-free access. A wide-open wall plate allows the installer to quickly place the mount and connect power, and Chief maintains that for virtually any application, a single person can easily mount the system's top rail and slide on the entire assembly.

Cables and Connectors

Structured Cable Products (stand 11F70) is announcing that its HNCPRO and HNCPRO PLUS+ professional grade home network cables are the first cables that have been officially recommended by the HDBaseT Alliance. The cables are designed to meet and exceed today's demanding HD distribution applications over UTP/STP cables, which serve as the backbone of the HDBaseT standard. The cables also provide improved signal integrity and stable electrical performance exceeding TIA/EIA requirements for CAT5e/CAT6e.

BMB (stands 1P22 and 1P35) is showing universal RCA, BNC and F connectors from Planet Waves. These new connectors employ the Planet Waves one step strip tool to cut and remove the coaxial jacket, shield, and insulator in a single step leaving just the copper centre conductor exposed to the correct length. The coaxial cable is then simply inserted into the universal connector.

For solderless and crimp-free termination, **BTX Technologies (stand 2A55)** is offering the MaxBlox family that includes HD15, DB9, S-Video, and 3.5mm connectors, as well as the new BTX-MXRCA screw-terminating RCA panel-mount connector that requires only a strip tool and a screwdriver. BTX is also showing the ProBlox-D that incorporates multiple data, HD video, audio, and control signals in a single connector.

Project Design and Management

D-Tools (Home Cinema Europe stand 1N40) is showing its flagship System Integrator (SI) software. This total design solution uses Autodesk AutoCAD and Microsoft Visio for comprehensive system design, documentation and project management. D-Tools SI is designed to allow residential and commercial integrators to streamline their business processes to increase overall revenues while reducing the time and costs associated with the installation and integration of low-voltage systems.

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